



4.9 to 5.9 GHz, Dual-Pol 90 Degree Sector Antenna with Mounting Bracket



C050000D004A

Cambium Networks has deployed millions of radios around the world, achieving unparalleled degrees of scalability. Based on this vast experience, Cambium Networks has designed a sector antenna solution for PTP 670/700 High Capacity MultiPoint (HCMP) radios that enables network operators to connect up to eight PTP radios to a single HCMP access point. Operators deploying networks in the 5GHz spectrum will find this sector antenna especially well-suited to high-density networks requiring frequency re-use and wide-band spectrum coverage, as well as video surveillance and mission critical infrastructure backhaul applications. This sector antenna is also compatible with Cambium Networks' connectorized PMP products.

KEY ADVANTAGES:

- **High Capacity MultiPoint (HCMP):** Compatible with the PTP 670/700 HCMP configuration, which allows up to eight remote PTP radios to connect to a single HCMP access point.
- **Standard Dual N-Type Interface:** Compatible with any N-Type connectorized AP such as the PMP 450, PMP 450i
- **Frequency Reuse:** Designed for ABAB channel re-use (two channels covering four sectors), this sector antenna has 35dB front to back ratio including a wide aperture in the rear-facing direction
- **Channel Flexibility:** Constant gain from 4.9 to 6.0 GHz allows the operator to select a channel anywhere in the band and achieve the expected performance.
- **Consistent Coverage:** The excellent null fill capabilities of the antenna allow for broad geographical coverage within a sector even near the base of the tower and the edges of the sector.
- **Designed for the Installer:** Small compact design, with easy mounting.
- **Predictable Performance:** This sector antenna is integrated into Cambium Networks LINKPlanner™ and the 3D model shows coverage at all elevations and across the azimuth.

KEY SPECIFICATIONS:

- 17 dBi gain
- 35 dB front to back ratio
- 4.9 to 5.97 GHz spectrum
- IP 65 ruggedized design

SPECIFICATIONS

Model Number	C050000D004A
Frequency Range	4.9 GHz to 5.97 GHz
Gain	17 dBi
3 dB Beamwidth – Azimuth	90 degrees
6 dB Beamwidth – Azimuth	120 degrees
3 dB Beamwidth – Elevation	6 degrees
Electrical Downtilt	-2 degrees
Polarization	Horizontal and Vertical
Port-to-Port Isolation; Cross Polarization	> -30 dB; > -22 dB
Front-to-Back Ratio	35 dB
Maximum Input Power	5W
Input Impedance	50 ohms
VSWR (Max)	2:1
Connectors	N-Type (Male)
Mounting Hardware	tower/pole mount Included mount for mast diameters 1.5" to 4.5" (4cm to 11.5cm), with -10 to +5 degrees of tilt; GEOMET Coating
Mounting Adjustment	Azimuth (+/- 180 degrees); Elevation (+5 / - 10 degrees)
Wind Speed	Survival at < 209 km/hr
Physical Dimensions	23.4"(H) x 6.2" (W) x 4.3 (D) (594mm x 157mm x 110mm)
Weight	8.8 lbs. (4.0 kg)
Environmental	IP65; RoHS/WEEE Compliant
Radome Material	UV Stabilized ASA (UL Certified Material)
Shock/Vibration	MIL-STD-810G Method 516.6 / MIL-STD-810G Method 514.6 procedures I/C24, II/C5
Operating Temp ; Humidity	-40oC to 60oC (-40oF to 140oF); up to 95% humidity

ANTENNA PATTERNS

